CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/KAK/CSR-06/058e/CEMENT/2016-17 Date: 08.06.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. K. Anil Kumar,** # 84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore - 75.
*NAME OF THE WORK	:	Improvements to roads and drains at Varadarajanagar & surrounding roads in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	06.06.2016
PERIOD OF TESTING	:	06.06.2016 to 08.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	450 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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ob No.: CTCE/BBMP/W.No.11/KAK/CSR-06/058e/SAND-Gradation/2016-17 : 08.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K. Anil Kumar,** # 84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore - 75.
* Name of Work	: Improvements to roads and drains at Varadarajanagar & surrounding roads in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 06.06.2016
Date of Testing	: 08.06.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.04	90-100	90-100	90-100	95-100
2.36	77.51	60-95	75-100	85-100	95-100
1.18	49.65	30-70	55-90	75-100	90-100
600 Micron	19.40	15-34	35-59	60-79	80-100
300 Micron	9.27	5-20	8-30	12-40	15-50
150 Micron	3.29	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.11/KAK/CSR-06/058e/AGG/GR/2016-17 : 08.06.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K. Anil Kumar,** # 84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore - 75.
* Name of Work	: Improvements to roads and drains at Varadarajanagar & surrounding roads in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 06.06.2016
Date of Testing	: 08.06.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.39	95-100	85-100
20	35.17	30-70	0-20
10	13.15	10-35	0-5
4.75	1.97	0-5	-

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/KAK/CSR-06/058e/CUBE/2016-17 11.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*Agency	: **Mr. K. Anil Kumar,** # 84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Thippasandra, Bangalore - 75.
*Name of the work	: Improvements to roads and drains at Varadarajanagar & surrounding roads in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
*Reference	: BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 11.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.06.2016	11.07.2016	8.115	475.6	21.14
2	13.06.2016	11.07.2016	8.137	495.7	22.03
3	13.06.2016	11.07.2016	8.187	512.8	22.79

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*Reference	: BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 11.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.06.2016	11.07.2016	8.215	478.9	21.28
2	13.06.2016	11.07.2016	8.326	489.6	21.76
3	13.06.2016	11.07.2016	8.287	501.7	22.30

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*Reference	: BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 13.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2016	13.07.2016	8.138	474.5	21.09
2	15.06.2016	13.07.2016	8.164	488.2	21.70
3	15.06.2016	13.07.2016	8.215	509.7	22.65

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*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 13.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2016	13.07.2016	8.193	477.2	21.21
2	15.06.2016	13.07.2016	8.312	515.7	22.92
3	15.06.2016	13.07.2016	8.274	494.5	21.98

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*Name of the work : Improvements to roads and drains at Varadarajanagar & surrounding roads in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.

*Reference : BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016

*Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 15.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2016	15.07.2016	8.125	486.9	21.64
2	17.06.2016	15.07.2016	8.211	498.6	22.16
3	17.06.2016	15.07.2016	8.169	516.4	22.95

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*Reference	: BBMP/EE/BTP/WO/33/2016-17 Dated: 20.05.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 15.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2016	15.07.2016	8.427	489.3	21.75
2	17.06.2016	15.07.2016	8.353	477.8	21.24
3	17.06.2016	15.07.2016	8.218	471.7	20.96

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*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 18.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2016	18.07.2016	8.125	479.6	21.32
2	20.06.2016	18.07.2016	8.169	492.5	21.89
3	20.06.2016	18.07.2016	8.235	508.3	22.59

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*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 18.07.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2016	18.07.2016	8.237	471.6	20.96
2	20.06.2016	18.07.2016	8.365	503.2	22.36
3	20.06.2016	18.07.2016	8.219	489.7	21.76

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